PRESENT CLAIMS:

1.   (Previously presented) A method for transforming gene expression signals, the method comprising the steps of:

5   determining a plurality of gene expression signals for a gene; and

          deriving a transformation that transforms the plurality of gene expression signals into transformed gene expression signals for the gene, resulting in a uniform distribution of the transformed gene expression signals within a selected interval wherein each gene expression signal is converted by the transformation into a transformed gene expression signal in the

10   selected interval, and wherein the uniform distribution of transformed gene expression signals may be used to determine gene expression patterns.

2.   (Original) The method of claim 1, further comprising the step of applying the transformation to an additional gene expression signal.

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3.   (Previously presented) The method of claim 1, wherein the step of deriving comprises the steps of:

          determining a function that approximates a distribution of the plurality of gene expression signals for the gene; and

20   using the function to create the transformation.

4.   (Canceled)

5.   (Canceled)

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6.   (Canceled)

7.   (Canceled)

8.   (Canceled)

5   9.   (Canceled)

10.   (Canceled)

11.   (Canceled)

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12.   (Canceled)

13.   (Canceled)

15   14.   (Canceled)

15.   (Canceled)

16.   (Canceled)

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17.   (Previously presented) A system comprising:

a memory that stores computer-readable code; and

a processor operatively coupled to the memory, the processor configured to implement the computer-readable code, the computer-readable code configured to:

25   determine a plurality of gene expression signals for a gene; and

derive a transformation that transforms the plurality of gene expression signals into transformed gene expression signals for the gene, resulting in a uniform distribution of the transformed gene expression signals within a selected interval wherein each gene expression

signal is converted by the transformation into a transformed gene expression signal in the selected interval, and wherein the uniform distribution of transformed gene expression signals may be used to determine gene expression patterns.

5   18.   (Original) The system of claim 17, wherein the computer-readable code is further configured to apply the transformation to an additional gene expression signal.

19.   (Previously presented) The system of claim 17, wherein the computer-readable code is further configured, during the step of deriving, to perform the steps of:

10   determine a function that approximates a distribution of the plurality of gene expression signals for the gene; and

use the function to create the transformation.

20.   (Canceled)

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21.   (Canceled)

22.   (Canceled)

20   23.   (Previously presented) An article of manufacture comprising:

a computer readable medium having computer readable code means embodied thereon, the computer readable program code means comprising:

a step to determine a plurality of gene expression signals for a gene; and

a step to derive a transformation that transforms the plurality of gene expression

25   signals into transformed gene expression signals for the gene, resulting in a uniform distribution of the transformed gene expression signals within a selected interval wherein each gene expression signal is converted by the transformation into a transformed gene expression signal in

the selected interval, and wherein the uniform distribution of transformed gene expression signals may be used to determine gene expression patterns.

24.   (Original) The article of manufacture of claim 23, wherein the computer-readable

5   code means further comprises a step to apply the transformation to an additional gene expression signal.

25.   (Previously presented) The article of manufacture of claim 23, wherein the computer-readable code means is further configured, during the step of deriving, to perform:

10   a step to determine a function that approximates a distribution of the plurality of gene expression signals for the gene; and

a step to use the function to create the transformation.

26.   (Canceled)

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27.   (Canceled)

28.   (Canceled)

20 29.   (Previously presented) The method of claim 1, wherein the selected interval comprises an interval between 0 and 1.